

SAFETY DATA SHEET

1. Identification

Product identifier	HYDROCHLORIC ACID, 37	%, SUPERIOR REAGENT (ACS)
Other means of identification		
Product code	2586	
Recommended use	manufacture of other chemical products professional, scientific and technical activities: scientific research and development	
Recommended restrictions	None known.	
Manufacturer/Importer/Supp	olier/Distributor information	
Manufacturer		
Company name	GFS Chemicals, Inc.	
Address	P.O. Box 245	
	Powell, OH 43065	
	United States	
Telephone	Phone	740-881-5501
	Toll Free	800-858-9682
	Fax	740-881-5989
Website	www.gfschemicals.com	
E-mail	service@gfschemicals.com	
Emergency phone number	Emergency Assistance	Chemtrec 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement	
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
WATER		7732-18-5	63
HYDROGEN CHLORIDE		7647-01-0	37

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Irritating, corrosive and/or toxic gases or fumes will be released during a fire.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. This product is miscible in water. Should not be released into the environment. Clean up in accordance with all applicable regulations.	
	Large Spills: Dike the spilled material, where this is possible. Neutralize with lime or soda ash. Neutralize the spilled material before disposal. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.	

7. Handling and storage

Precautions for safe handling	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
US. ACGIH Threshold Lin			
Components	Туре	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	2 ppm	
US. NIOSH: Pocket Guide	e to Chemical Hazards		
Components	Туре	Value	
HYDROGEN CHLORIDE (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
Biological limit values	No biological exposure limits noted for	or the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
-	res, such as personal protective equ	-	
Eye/face protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Provide eyewash station and safety shower.		
Respiratory protection		In case of insufficient ventilation, wear suitable respiratory equipment. Use a chemical cartridge respirator for concentrations exceeding the Occupational Exposure Limit.	
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.		

9. Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Pungent.
Odor threshold	Not available.
рН	1.01 (0.1 N Solution)
Melting point/freezing point	-101.2 °F (-74 °C)
Initial boiling point and boiling range	228.2 °F (109 °C) @ 20% HCl

Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	
Flammability limit - lower	Not available.
(%)	
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	190 torr
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Completely miscible with water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.18 g/cm3
Explosive properties	Not explosive.
Molecular formula	HCI
Molecular weight	36.46
Oxidizing properties	Not oxidizing.
Percent volatile	100 %
Specific gravity	1.18

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Bases. Reducing agents. Contact with most metals produces highly flammable hydrogen gas. Amines.
Hazardous decomposition products	Hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful			
Skin contact	Causes severe skin burns.			
Eye contact	Causes serious eye damage.			
Ingestion	Causes digestive tract burns. Harmful if swallowed.			
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.			
Information on toxicological e	ffects			

Acute toxicity

In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

Product	Species	Test Results
HYDROCHLORIC ACID		
<u>Acute</u>		
Dermal		
LD50	Mouse	3916 mg/kg
Inhalation		2005 //
LC50	Mouse	2995 mg/l
		2995 mg/l, 1 Hours estimated
		2995 ppm, 1 Hours estimated
	Rat	8443 ppm, 1 Hours estimated
		8443 mg/l, 1 Hours estimated
		3124 mg/l 1 hour
Oral		
LD50	Rabbit	900 mg/kg
Components	Species	Test Results
YDROGEN CHLORIDE (CAS 764	47-01-0)	
<u>Acute</u>		
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation		
LC50	Mouse	1108 ppm, 1 Hours
		1108 mg/l, 1 Hours
	Rat	3124 ppm, 1 Hours
		3124 mg/l, 1 Hours
Oral		
LD50	Rabbit	900 mg/kg
Other		
LD50	Mouse	1449 mg/kg
* Estimates for product may	v be based on additional component data no	t shown
	Causes severe skin burns and eye dama	
Serious eye damage/eye rritation	Causes serious eye damage.	<u>j</u>
Respiratory or skin sensitiza	tion	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	Irritating to skin.	
Germ cell mutagenicity	No data available to indicate product or mutagenic or genotoxic.	any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to be a ca	arcinogen by IARC, ACGIH, NTP, or OSHA.
	all Evaluation of Carcinogenicity	
HYDROGEN CHLORIDE		assifiable as to carcinogenicity to humans.
US OSHA Hazard Catego Not regulated.	nes (1)	
US OSHA Hazard Catego	ries (10)	
Not regulated.		
US OSHA Hazard Catego	ries (2)	
Not regulated.		
US OSHA Hazard Catego	ries (3)	
Not regulated. US OSHA Hazard Catego	ries (4)	
Not regulated. US OSHA Hazard Catego	ries (5)	
Not regulated.		
US OSHA Hazard Catego	ries (6)	
Not regulated.		

US OSHA Hazard Categorie Not regulated. US OSHA Hazard Categorie Not regulated.	
US OSHA Hazard Categorie	es (9)
Not regulated. US. National Toxicology Pr Not listed.	ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Product		Species	Test Results
HYDROCHLORIC ACII)		
Aquatic			
Fish	LC50	Fish	762.1622 mg/l, 96 hours estimated
Components		Species	Test Results
HYDROGEN CHLORID	E (CAS 7647-01-0)		
Aquatic			
Fish	LC50	Western mosquitofish (Ga	ambusia affinis) 282 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	None known.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Neutralize with soda ash/slaked lime and discharge to sewer with lots of water.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number UN1789	
UN proper shipping name Hydrochloric ac	id
Transport hazard class(es)	
Class 8	
Subsidiary risk -	
Label(s) 8	
Packing group II	

6/9

Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	A3, A6, B3, B15, IB2, N41, T8, TP2, TP12
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
IATA	
UN number	UN1789
UN proper shipping name	Hydrochloric acid
Transport hazard class(es	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	8L
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1789
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es	
Class	8
Subsidiary risk	•
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	
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15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

) CFR 302.4)			
	ORIDE (CAS 7647-01-	•	Listed.		
SARA 304 Emergen	•		5000 1 00		
HYDROGEN CHLORIDE (CAS 7647-01-0) US OSHA Hazard Categories (1)		0)	5000 LBS		
Not regulated.					
US OSHA Hazard Ca	itegories (2)				
Not regulated. US OSHA Hazard Ca	ategories (3)				
Not regulated.					
US OSHA Hazard Ca	ategories (4)				
Not regulated. US OSHA Hazard Ca	itegories (5)				
Not regulated. US OSHA Hazard Ca	ntegories (6)				
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Not regulated. US OSHA Hazard Ca	itegories (8)				
Not regulated.					
US OSHA Hazard Ca Not regulated.	itegoriës (9)				
US OSHA Hazard Ca	tegories (10)				
Not regulated.					
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	v nazardolic clinct	ance			
SARA 302 Extremel Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower	Threshold planning quantity, upper
		Reportable		planning	planning
Chemical name HYDROGEN CHLORIDE SARA 311/312	CAS number 7647-01-0 No	Reportable quantity	planning quantity	planning quantity, lower	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica	CAS number 7647-01-0 No	Reportable quantity	planning quantity	planning quantity, lower	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo	CAS number 7647-01-0 No I porting)	Reportable quantity	planning quantity 500 lbs	planning quantity, lower value	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name	CAS number 7647-01-0 No I porting)	Reportable quantity	planning quantity 500 lbs CAS number	planning quantity, lower value % by wt.	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name HYDROGEN CHLC	CAS number 7647-01-0 No I Dorting)	Reportable quantity	planning quantity 500 lbs	planning quantity, lower value	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name HYDROGEN CHLC er federal regulation	CAS number 7647-01-0 No I Dorting) DRIDE ns	Reportable quantity 5000	planning quantity 500 lbs CAS number 7647-01-0	planning quantity, lower value % by wt.	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo <u>Chemical name</u> HYDROGEN CHLC ter federal regulation Clean Air Act (CAA)	CAS number 7647-01-0 No I Driting) DRIDE ns Section 112 Hazar	Reportable quantity 5000	planning quantity 500 lbs CAS number 7647-01-0	planning quantity, lower value % by wt.	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo <u>Chemical name</u> HYDROGEN CHLC ther federal regulation Clean Air Act (CAA) HYDROGEN CHLC	CAS number 7647-01-0 No I orting) DRIDE ns Section 112 Hazar DRIDE (CAS 7647-01-	Reportable quantity 5000 5000	planning quantity 500 lbs CAS number 7647-01-0 tants (HAPs) List	planning quantity, lower value % by wt. 37	planning quantity, upper
Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name HYDROGEN CHLC ter federal regulation Clean Air Act (CAA) HYDROGEN CHLC Clean Air Act (CAA)	CAS number 7647-01-0 No I Drting) DRIDE ns Section 112 Hazar DRIDE (CAS 7647-01- Section 112(r) Action	Reportable quantity 5000 5000 rdous Air Pollut 0) cidental Releas	planning quantity 500 lbs CAS number 7647-01-0	planning quantity, lower value % by wt. 37	planning quantity, upper
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Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name HYDROGEN CHLC ter federal regulation Clean Air Act (CAA) HYDROGEN CHLC Clean Air Act (CAA) HYDROGEN CHLC Safe Drinking Wate (SDWA)	CAS number 7647-01-0 No I ORIDE DRIDE Section 112 Hazar DRIDE (CAS 7647-01- Section 112(r) Act DRIDE (CAS 7647-01- ir Act Not regulat	Reportable quantity 5000 5000 5000 cidental Releas 0) cidental Releas	planning quantity 500 lbs CAS number 7647-01-0 tants (HAPs) List	planning quantity, lower value % by wt. 37 R 68.130)	planning quantity, upper value
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Chemical name HYDROGEN CHLORIDE SARA 311/312 Hazardous chemica SARA 313 (TRI repo Chemical name HYDROGEN CHLC er federal regulation Clean Air Act (CAA) HYDROGEN CHLC Clean Air Act (CAA) HYDROGEN CHLC Safe Drinking Wate (SDWA) Drug Enforceme and Chemical C HYDROGEN C Drug Enforceme AYDROGEN C	CAS number 7647-01-0 No I ORIDE DRIDE DRIDE (CAS 7647-01- Section 112 Hazar DRIDE (CAS 7647-01- Section 112(r) Act DRIDE (CAS 7647-01- or Act Not regulat ent Administration ode Number CHLORIDE (CAS 7647 ent Administration CHLORIDE (CAS 7647	Reportable quantity 5000 5000 5000 cidental Releas 0) red. (DEA). List 2, (DEA). List 1 8 7-01-0) (DEA). List 1 8	planning quantity 500 lbs CAS number 7647-01-0 tants (HAPs) List tants (HAPs) List te Prevention (40 CF Essential Chemicals 6545 the 2 Exempt Chemica	planning quantity, lower value % by wt. 37 R 68.130) (21 CFR 1310.02(b)	planning quantity, upper value
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US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

HYDROGEN CHLORIDE (CAS 7647-01-0)

US. Massachusetts RTK - Substance List HYDROGEN CHLORIDE (CAS 7647-01-0)

- US. New Jersey Worker and Community Right-to-Know Act HYDROGEN CHLORIDE (CAS 7647-01-0)
- US. Pennsylvania Worker and Community Right-to-Know Law HYDROGEN CHLORIDE (CAS 7647-01-0)
- US. Rhode Island RTK

HYDROGEN CHLORIDE (CAS 7647-01-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

, Issue date Revision date Version #	February-14-2013 April-05-2016 02
Disclaimer	The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.